USMC IUID Legacy Marking Program

Challenge

Identify UID Mark and Register all USMC Legacy Principal

End Items (PEIs) to meet the OSD IUID compliance goal by 31 December 2010.

Background

DoD Policy Memorandum for IUID, December 2008

December 31, 2010 – All Class VII in DoD inventory must be UII Registered.

February 2009 - HQMC, DC I&L (LPC) Directed MCSC, Operational Forces Systems (PG09):

IUID Implementation / Marking of Marine Corps *Legacy*

USMC IUID Legacy Marking Program

Mission Essential Phase I (MEP-I)

- ❑ **Scope**
  - Class VII: ~ 162 NSNs
  - ~70,000 PEIs & ~ 500,000 Assemblies/Sub-Assemblies, i.e., Secondary Repairables (SECREPs)
- ❑ **Execution**
  - III Marine Expeditionary Force: Jul 2009 - Sep 2009
  - II Marine Expeditionary Force: Nov 2009 - Jan 2010
  - I Marine Expeditionary Force: Feb 2010 - Current

Marine Corps IUID Legacy Phase 2 (MCI-LP2)

- ❑ **Scope**
  - Class VII 340 NSNs
  - ~396,000 PEIs
  - Planning Phase Completed
  - Simultaneous Execution at II & III MEF (Apr – Sep 2010)

USMC IUID Legacy Marking Process

Step 1. UII Candidacy Process

1. Disposal Date
2. OSD Criteria
3. OEM Marking

Step 2. Pedigree Data Collection

1. Collect Data
2. PM Approval
3. Deliver Data to Engineer & TDS Teams

Step 3. Engineering Analysis

1. Conduct Analysis
2. Determine mark location
3. Determine Label Type
4. Determine Adhesive Type

Step 4. Marking Instruction (MI) Development

1. Develop MI
2. Review & Finalize
3. Upload MI to SharePoint
4. Conduct CM of MIs

Step 5. Determine Equipment Quantity and Location

1. Query MERIT
2. Download equipment qty
3. Download units
4. Sort equipment according to owning unit and location
5. Develop equipment quantities/location file.
6. Procure blank labels.

Step 6. Equipment location and serial number validation

1. Provide general equipment information to MMTs.
2. MMTs inventory owning unit equipment to validate serial numbers, quantities, and locations.

Step 7. Label Development & Printing

1. Apply inventory information to logistical information.
2. QA applied to Data through TDS.
3. TDS reconciliation.
4. Use mobile marking cart to produce UII labels.
5. Sort labels according to locations and equipment types.

Step 8. Mark Equipment per Marking Instruction

1. Validate serial number/NSN of new label against equipment.
2. Clean equipment surface.
3. Apply IUID label to equipment.

Step 9. Scan Marked Equipment

1. Scan applied IUID Labels.
2. Seek and validate OEM Marks.
3. Download Scan reports/data.
4. Provide scan downloads to TDS.
5. TDS applies QA to data.

Step 10. Upload to OSD Registry

1. Send TDS upload to OSD Registry.
2. Confirm Receipt.
3. OSD Registry Accepts & Approves.
4. Confirm OSD Registry Approval.

USMC IUID Legacy Marking Approach

UID Candidates (Controlled Items: Class VII)
- ❑ Disposal Date (2011)
- ❑ OSD Criteria
- ❑ OEM Mark; per DFARS 211.274-1

Pedigree Data Collection
- ❑ Total Force Structure Management System
- ❑ Marine Corps Equipment Readiness Informati
- ❑ Program Management Office
- ❑ OSD Criteria
- ❑ GCSS-MC Requirements
- ❑ Financial Data

Engineering Analysis
- ❑ UID Label Placement
- ❑ UID Label Size, Material & Adhesive
- ❑ Marking Instructions

Mobile Marking Execution
- ❑ Deployment of Mobile Marking Teams
- ❑ Produce Labels
- ❑ Mark and Scan Equipment

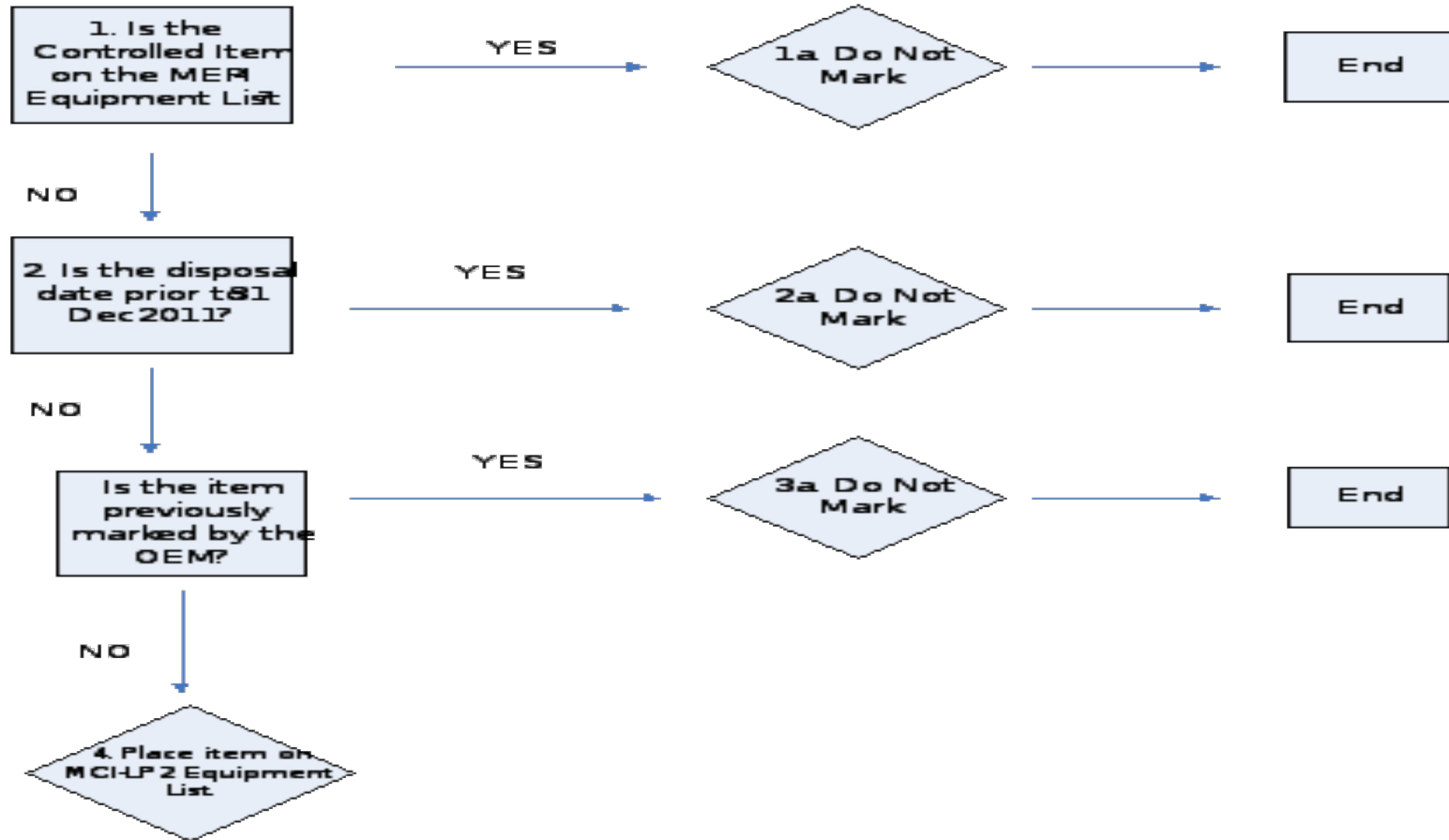**Temporary Data Storage (TDS)**
- ❑ OSD Registry
- ❑ GCSS- MC

GENSET
30KW
MEP-805B
TAMCN: B0953
SER: HX32354
NSN: 6115014619335

UID Construct #2

17V4KAB72347HX323
54

IAC   CAGE Part No. Serial No.

USMC IUID Legacy Marking Candidacy

IUID Candidacy Process Developed

```
┌─────────────────┐
│ 1. Is the       │        YES          ┌──────────────┐       ┌─────────┐
│ Controlled Item ├──────────────────▶  │ 1a Do Not    ├─────▶ │   End   │
│ on the MERI     │                     │    Mark      │       └─────────┘
│ Equipment List? │                     └──────────────┘
└────────┬────────┘
         │ NO
         ▼
┌─────────────────┐
│ 2. Is the disposal│      YES          ┌──────────────┐       ┌─────────┐
│ date prior to 31 ├──────────────────▶ │ 2a Do Not    ├─────▶ │   End   │
│ Dec 2011?       │                     │    Mark      │       └─────────┘
└────────┬────────┘                     └──────────────┘
         │ NO
         ▼
┌─────────────────┐
│ Is the item     │        YES          ┌──────────────┐       ┌─────────┐
│ previously      ├──────────────────▶  │ 3a Do Not    ├─────▶ │   End   │
│ marked by the   │                     │    Mark      │       └─────────┘
│ OEM?            │                     └──────────────┘
└────────┬────────┘
         │ NO
         ▼
┌─────────────────┐
│ 4. Place item on│
│ MCI-LP 2 Equipment│
│ List            │
└─────────────────┘
```

Primary focus of Mobile Marking Execution: Class VII (PEIs)

Mobile Marking Team (MMT) Design, ~27 Members

- Team Lead (1)
- Data Manager (1)
- Operations Chief (1)
- Markers (24)

```
                              ┌──────────────┐      ┌──────────────┐
                              │   II MEF     │      │   II MEF     │
                              │  Execution   │──────│    Data      │
                              │    Lead      │      │   Manager    │
                              └──────────────┘      └──────────────┘
        ┌──────────────┐              │
        │  IUID Site   │              │
        │  Managers    │      ┌──────────────┐
        │   (ISMs)     │      │   II MEF     │
        │              │      │  Ops Chief   │
        └──────────────┘      └──────────────┘
```

| Team 1 3 IUID Markers | Team 2 3 IUID Markers | Team 3 3 IUID Markers | Team 4 3 IUID Markers | Team 5 3 IUID Markers | Team 6 3 IUID Markers | Team 7 3 IUID Markers | Team 8 3 IUID Markers |
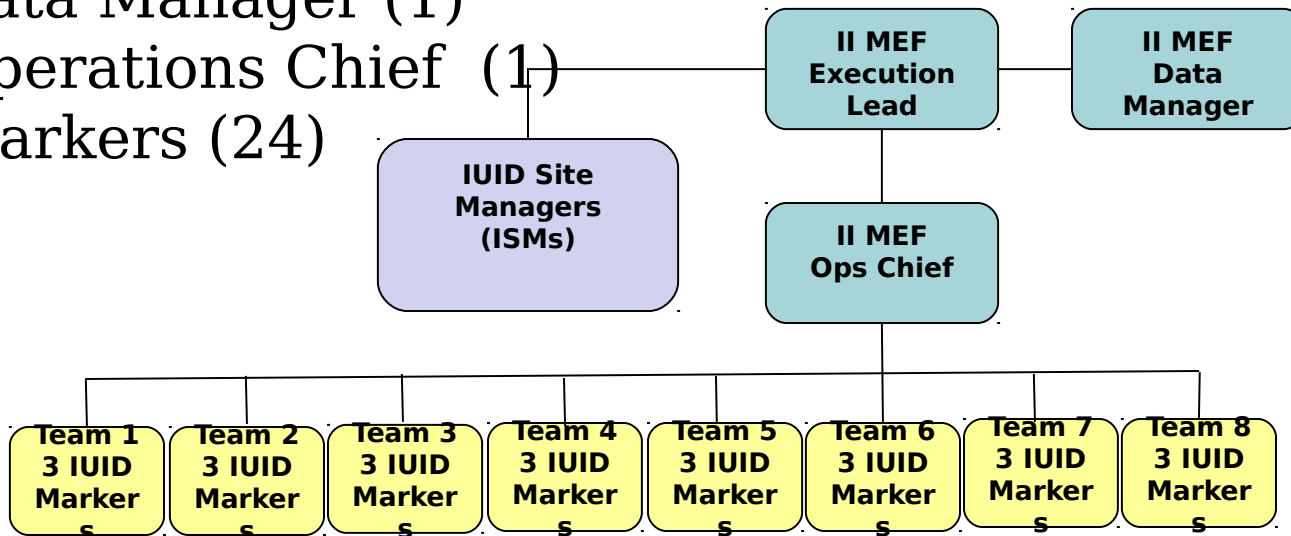
Movement Plan

- Based on Unit Availability & Location
- Larger to Smaller Units

180 Day Surge Effort

- Advance Party Visit
- MMT Training
- Mobile Marking Surg

USMC IUID Temporary Data Storage

Input Operations

- ☐ Accept IUID XML Data
  - Program Managers
  - Parallel or Previous Marking Efforts
  - All On-going Legacy Marking Efforts within Marine Corps
- ☐ Legacy Data Collection
  - 58 Data Elements Signed off by HQMC
- ☐ USMC Marking Effort Scan Reports
  - Aligns Scans with Legacy Data Collected

TDS Functionality

- ☐ Based on OSD IUID Registry
  - Business Use Cases
  - Data Validation Rules
  - Data Elements Required for Registration
- ☐ Synchronizes Registration of IUID Legacy Data with OSD Registry
- ☐ Ensures Uniqueness and Proper Construct of UIIs
- ☐ Synchronizes UIIs with Legacy Data

Output Operations

- ☐ Matrix Reporting by TAMCN, NSN, Part Number, or Product Ownership
- ☐ XML IUID Data Registration to OSD IUID Registry
- ☐ USMC Legacy Marking Effort Performance

The USMC Temporary Data Storage Will House Data Until Global Combat Support System – Marine Corps (GCSS-MC) Is Capable Of Performing This Function, At Which Time Data Will Be Migrated.

USMC IUID Legacy Ground Equipment
MEP – I Status/Results

Completed MEP-1 marking at two Major

Equipment Validation

Engraving

Currently at I MEF: ~8,500 PEIs as of 29 Mar 2010

Marking

Scanning

1) **Problem: Inconsistent Approach to IUID Across Programs**
   Action Taken: - *Upfront Coordination with Program Managers*
   - *Status Briefs*
   - *Data Validation & Quality Assurance*

2) **Problem: Data accuracy unreliable for pre-printing labels**
   Action Taken: Reduced initial objective for pre-printed labels from 80% to 0%
   (Refined process in accordance with slide #3)

3) **Problem: Lack of education and involvement of share holders**
   Action Taken: - *Provided In-Briefs and Out-Briefs to Commands*
   - *Increased communication with Shareholders*
   - *Provided Letters of Instruction (LOIs) by MEF and Unit Level*

4) **Problem: Availability and access to equipment being marked**
   Action Taken: Accounted for equipment being used for training, with existing OEM marks, and deployed to Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF)

5) **Problem: Incorrect existing OEM mark UII labels**
   Action Taken: Scan to validate and report discrepancies to PM

USMC IUID Team POCS

Marine Corps Systems Command
Product Group 09
Operational Forces Systems
(703) 357-8327

General Dynamics Information Technology
(703) 232-8926